Secrt. H-27—20,010—19-11-4

P.W. (1944) Department.

MD SERIES.

G.O. No. 1840

Dated 28-6-44

[Despatch Abstract.]

Irrigation - Grow More Food Campaign - Bellary district - Bellary taluk - Kurugodu village - Restoration of the Mallappa Kerl tank - Sanctioned.

PUBLIC WORKS DEPARTMENT.

From

Rao Bahadur
[illegible] Ayyangar, M.A., B.L.,
Chief Engineer for Irrigation,
Coimbatore, Madras.

To

The Secretary to Government,
Public Works Department.

No.1247/44-C-1, Dated 19th May 1944.

SECRETARY TO GOVT.
23 MAY 44
PUBLIC WORKS DEPT.

Sir,

Sub: Irrigation - Minor - Bellary District - Bellary Taluk - Restoration of the Mallappanakeri of Kurugodu village under G.M.F. campaign - Estimate submitted.

I forward herewith an estimate amounting to Rs.41,000/- for the restoration of the breached Mallappanakeri of the Kurugodu village in Bellary taluk, Bellary District for the immediate sanction of Government under G.M.F. campaign. The estimate report and the sketch may kindly explain the proposals.

2. The restoration of this breached tank was taken up by the Executive Engineer, Famine Division, Bellary in 1941 under Famine relief with reference to the Bellary Collector's proceedings No.4880/41-3 dated 8-8-41 as a portion of the bund was already formed by Famine labour. The present estimate provides for the remaining items of work yet to be done to bring the tank into beneficial use. Only 200 acres of ayacut are available and proposed to be irrigated under the tank as it has to depend entirely upon filling of about 40 M.Cft. in an area of its catchment area of 18.5 sq.miles and that will be sufficient to irrigate 200 acres at the usual storage out of 5 acres per M.Cft.

3. The total cost for the balance of work yet to be done is estimated at Rs.41,000/- and the return that can be expected works out to 1.84% against 4.5% fixed for famine protective works in the Circular G.O.No.1811-I dated 28-6-38. The work is located in a famine tract and will contribute in a measure to relieve the distress in that area by producing about 200 tons of paddy every year. The formal approval of the Collector to this estimate has not been obtained especially as it was the Collector that got the Executive Engineer to start the restoration as a famine work. As the return expected falls below the criteria fixed for famine protective works I request that Government of India be approached for help, if need be, and the estimate returned to me as early as possible pending the formal approval of the Collector so that the balance of work may also be completed before the North-East Monsoon of 1944.

4. The estimate is chargeable to '18.C.M.E. Irrigation - Minor - Major'.

For CHIEF ENGINEER FOR IRRIGATION.

Encls: 1 Estimate with report in duplicate.
1 Sketch map in duplicate.
1 Copy of Collector's proceedings.

MSA/50-C.

Report to accompany the estimate for Restoration of Mallappana Keri Kurugodu. Amount of Estimate. Rs41,000-

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This tank called Mallappana Keri of Kurugodu is situated at a distance of 1½ miles to the North East of Kurugode village which is at a distance of 16 miles North West of Bellary. It receives the supply of water from the drainage water of the surrounding catchment. The course of a vanka called Modela vanka or Isaiaballi vanka passes through the tank near its left flank. The tank is an abandoned one and it is proposed to repair its bunds and bring them to standard heights and section and it is also proposed to repair the existing sluice at L.S. 4050 and also to construct a new sluice at L.S. 2058 from the left flank end of the bund in order to encourage irrigation of the lands under the tank for which two sluices are absolutely necessary as the surplus is to run in the vanka dividing the ayacut into two parts. It is also proposed to acquire lands in the foreshore which do not belong to the Government and which will become submerged on account of the water being stored up to the proposed F.T.L. At present there being no surplus arrangement from tank it is also proposed to construct a paved byewash 600' long at the left flank of the bund. The tank bund from L.S.0. to L.S. 4750 excluding the length of the byewash and breach site will be made up to 4' above M.W.L. with a top width of 6' and slopes of 1½ to 1 in front and 2 to 1 in rear. The front slope of the bund at present has revetment broken here and there to its entire length up to about 2' below M.W.L. and it is proposed to put in revetment for the tank bund to the entire length of 5600' up to 1' above M.W.L. Irrigation is proposed to be carried on (1) by an existing sluice as L.S. 4050 (2) by a new sluice to be constructed at L.S. 2058. F.T.L. has been fixed at 98.00 to give a capacity of 40.88 M.c.ft.

Standard of Tail.

F.T.L. +98.00
M.W.L. +98.50

Top bund +103.50
Top width 6'-0
Side slopes 1½'to 1 and 2 to 1

P.T.O.

Surplus arrangements.

Paved byewash. Effective length 600' long
Capacity of Surplussing:- 2448 C.ft. p.s.
or 2450 cusecs.

ıch marks.

(1) B.M. on top of survey stone attractors of Deviation left flank. ... 100.00
Not corrected to Mean sea level and G.T.S.marks.

ɔefft. C= 400
rea of free basin ... 13.5 sq. miles.
Number of tanks above .., Nil
Catchment area .. 13.5 sq. miles
Maximum discharge from catchment area to be provided for..... 2268 cusecs.

Details of Storage.

Area of water spread at F.T.L.		11.15 mill. sq.ft.
Total Annual storage	..	40.88 mill. c.ft.
Capacity of tank at F.T.L.		40.88 "

Details of Irrigation.

Ayacut available for irrigation.	...	700 acres
Ayacut of the tank	...	200 acres
Water stored per acre	...	0.2 Mill. c.ft.
Ayacut of Sluice 1	...	100 acres
Sluice 2	.	100 acres

Sluices.

(Existing) sluice 1 at L.S.	4050	...	Sill level +87.42
(Proposed) Sluice at L.S. 2058		..	Sill level +87.00

(sd) K.Padmanabhapillai, 18-1-44.
Exe. Engr. Bellary Famine Divn.

Abstract estimate as revised in Chief Engineer's (Irrign.) Office.

		Rs.
I.	Repairs to Mallapanakeri bund (6218-222) = 5996 ..	5996
II.	Closing the breach in the tank bund ..	9688
III.	Constructing a new tower head sluice..	1401
IV.	Repairs to the existing sluice at the right flank by cutting open bund and effecting necessary repairs etc. ..	400
V.	Constructing a byewash 600' long at the left flank (3105+ 1550)=4655 ..	4655
VI.	Acquisition of dry land including 15% solatium	13250
	Unforeseen items L.S.	3000
	Petty supervision and contingencies say	2610
	Total cost on works	Rs.41000

Net revenue = Rs.755/-

Therefore return $\frac{755 \times 100}{41000} = 1.84\%$.

Aravamudan 20/5/43

for CHIEF ENGINEER FOR IRRIGATION.

2/5

Copy of Bellary Collector's Proceedings No. G.4650/42-3 dated 8-8-43

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Sub: Famine - Bellary Taluk - Kurugodu [illegible]ovements to Tank by famine labour - Diversion of workers - ordered.

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Read:- Letter No. 212 G/10.7.43 from the Executive Engineer, Bellary.

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With reference to the recommendations of the Executive Engineer, Bellary Division in his letter quoted above, the Collector, in anticipation of the Board's approval orders that the work for improvements to clearing the drain and strengthening the bund to Kurugodu tank in the Bellary taluk should be done by famine labour.

2. The Executive Engineer Famine Bellary is requested to arrange for the diversion of the required no. of workers of villages near Kurugodu who are now attending the Kurugodu camp. He is informed that this work should be attached to the Kurugodu camp and that one of the work agents in that camp should be put in charge of the work.

3. The Executive Engineer, Bellary is requested to prepare an estimate for the work immediately and forward it to the Executive Engineer, Famine Bellary. He should also report to this office the financial aspect of this proposal soon.

4. The Famine Charge Officer, Kurugodu camp, should report the date on which this work is started and should include the numbers attending on this work in his charge by getting the figures from the work agent.

[illegible]

ov/20.8.

SKETCH SHOWING THE POSITION OF MALLAPPANA KERI & ITS AYACUT BELLARY TALUK

12

LD/296 19/29/6

C.F. 16.

DRAFT FOR APPROVAL.

Date. Initials.

SUBJECT :—

When received for fair copying ...

When copied ..

When examined ..

When signed ..

When despatched.

Irrigation - G.M.F. campaign - [redacted] village - [redacted]
Bellary taluk - Restoration of [redacted]
Tallabbanakeri taluk - Sanction

READ AGAIN ....., d .....

" " ..... " ..... 19....

READ *ALSO* :—

No. 2461 D/45 From the C. E (I), No. 1247/44-C-1, dated 19-5- 1944

" ..... " ..... " ..... 19....

" ..... " ..... " ..... " ..... 19....

Order Ms. ~~Resolution Rout.~~ No. 1840, dated 28 · 6 - 1960

Sanction is accorded to the immedi

execution at an estimated cost of Rs 41,000 (Forty one thousand) of the scheme for the restoration of the breaches of the ~~irrigation~~ tank near Kumaradu village, Bellary Taluk, Bellary dt.

2. The estimate is chargeable to 18 Irrigation - Other revenue expenditure financed from ordinary revenues - Irrigation works - a. works"

3. The C.C.(I) is requested to submit in due course proposals for the provision of the requisite funds. The AG is requested to admit the expenditure in audit pending the authorisation of a supplementary estimate of expenditure by H.E. the Governor in due course.

Tel. Message. IV / Ors. I

Dno — No. 519

From The Secy to Govt., P.W.D.

To The C. E (I)

G.O.F. - Bellary dt - Restoration of the Mallapparakeri tank - G.O.No. 1840 Ors. dt 28-6-44

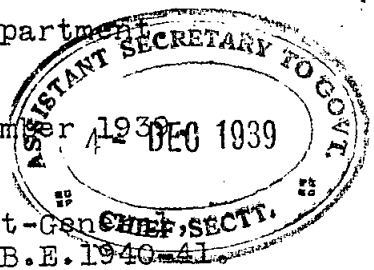
Sri K. Suryanarayana Rao of the Servants of India Society has brought to the notice of the Govt. that the work on the above scheme has been stopped. Please say whether it is a fact and if so on what authority.

V.D.

TPK
5/9/44

34708

Finance (B.G.) Department



U.O. Note No. 48680-B.G.-3 dated 30th November 1939.

Charges in England controlled by the Accountant-General India Office - R.E.1939-40 and B.E.1940-41.

A copy of the statement showing the estimates proposed by the Accountant-General, India Office, _ , under "Charges in England" for the Revised Estimate 1939-40 and the Budget Estimate 1940-41 and those proposed by the Heads of Departments for leave salaries to be paid by the Accountant-General, India Office in 1940-41 is forwarded to the Departments of the Secretariat concerned.

2. They are requested to intimate to this department later than the 10th December 1939 any alterations that may be found necessary in the figures proposed with reasons therefor.

TELEPHONIC MESSAGE BY POST.

The Chief Engineer for Irrigation, Madras.
The Secretary to Government, Public Works Department.

B 4186

No.2852/44 M-3 dated 7the September 1944.

Sub:- "Grow More Food Campaign--Bellary District--Restoration of the Mallappanaheri--Tank.

Ref:- Your Telephonic Message dated 6-9-44.

Pending orders of Government on para VI of my letter No. 172/43 M-178 dated 2-8-44, the Superintending Engineer has probabl stopped the work in accordance with the instructions of Government in para 3 of G.O.Ms.No.1931-P.W. dated 7-7-44, as the cost of the scheme is likely to exceed Rs.41,000/-, thereby reducing the return still further below 1.46%.

Copy by post in confirmation.

7/8/44

Srm.7.9. Deputy Chief Engineer for Irrigation.

D.O.No.51509-AII/44-3.

Very urgent

Development Department
Dated Fort St. George,
the 8th September 1944.

Dear Mr. Suryanarayana Rao,

Your letter dated 1-9-44 to the Fourth Adviser to His Excellency the Governor regarding Mallannagarikeri tank and other matters.

I am to say that the Adviser will be glad to see you at the Secretariat at 3 p.m. on ~~Monday~~ Tuesday the 12th September 1944.

Yours sincerely,

Sd. C.V.Narasimhan.

To

Sri R.Suryanarayana Rao,
C/o, Servants of India Society,
Royapettah.

Copy to Public Works Department who will please put up the file regarding Mallannagarikeri tank for A4's reference at the interview.

By order.

OFFICE OF THE CHIEF ENGINEER FOR IRRIGATION, MADRAS.
Endorsement No.2852/44 M-6, dated 12th September 1944.

Read:-Telegram from the Executive Engineer, Bellary, on 11-9-44 to the Chief Engineer for Irrigation, Madras.

REFERENCE HALLAPANKERI TANK RUPEES FIFTY THOUSANDS REQUIRED

Copy submitted to the Government for information in continuation of Chief Engineer Irrigation's Telephonic Message No.2852/44 M-3, dated 7-9-1944.

For Chief Engineer for Irrigation.

To the Secretary to Government,
Public Works Department.

Srn.12.9.

MWD

LR/ Memo No. 4139 D/Irr. 3 dt 22-9-44

23/9 Irrigation – G.M.F. Campaign. Bellary dt –
– Restoration of the Nallappa-nainakeri tank.

Ref. from the C.E. (T) No. 2852/44-M-6 dt 12.9.44

The work connected with the scheme for the restoration of the Nallappanaikeri tank in the Bellary district should be pushed through expeditiously.

TDS 22/9/44 PK 23/9/44

Sd/- [illegible]

Sd/- 23/9/44 To the C.E.

Ord. D

G.M.F. campaign –
Irrigation – Bellary dt – Bellary taluk –
Restoration of the Mallappanakeri of Kurugodu
village.

C.No. 2461 D/44-1. From the C.E (I) No. 1247/44-C-1 dt 19-5-44.

To U.S.

The proposal relates to the restoration of the Mallappanakeri tank in Kurugodu village, Bellary taluk, Bellary dt. The report accompanying the estimate explains the scheme. The scheme is estimated to cost Rs 41,000 for works and it is expected to give a return of 1·84 per cent. The work will be done by departmental labour and the area that will be brought under irrigation are reported in para 2 of C.E's letter. The question of obtaining a grant from the Govt of India raised by C.E(I) in para 3 of his d.o. will have to be considered after a decision is reached on the general question of obtaining a grant from the Govt of India in respect of schemes yielding less than 3 per cent return.

2. The cost of the scheme exceeds Rs 10,000 and the expenditure on it will be met from "New service". Orders for sanctioning the scheme may have therefore to be obtained in full circulation.

3. Submitted for orders whether the scheme may be sanctioned for immediate execution under the G.M.F Campaign –

TPS 29/5/44

4. The case may be sent to Rev and Fin for remarks.

May be sanctioned for immediate execution.

29/5/44

Rev 29/5/44

Fin

B

SECRETARY TO GOVERNMENT
1921 F
30 MAY 1944
REVENUE DEPARTMENT

31/5/44 A

Rev no 2461 D/44-1
dt 31-5-44

100 U.S

Please see the CE(W)'s letter in/c of particulars, the portion marked 'A' in/c, the enclosures at pp. 3-7 & the notes on plans. This dept may agree to the scheme being sanctioned for immediate execution.

The file may be passed on to Fin.

Rd 31.5.44 Encl 1.6 MM S

MM 8/6/44 Fin. Thro' E

Fin (Exp B) Rd 31.5.44 31.5.44

In the circs. set on pages 1-3 & the P.W note overleaf, the proposals at A, B, & C on/c above may be accepted. (The work will not be remunerative & P.W. propose to consider the question of contribution from the G.I. separately)

Rev. 4.0 1921 F/44-1 5-6-44

KRW 7.6.44

SECRETARY TO GOVERNMENT 6 - JUN 1944 INDIAN DEPARTMENT

A 26 6.6.44 KB 8/6/44

KRW 7.6.44 S

Cl 8.6.44 PW. Encl Fin No 3-3-6 (EB) 10.6.44

I would agree to the construction of the Mallapuram tank. Boring of wells in the G.M.E. Campaign at an estimated cost of Rs 41, on formula basis may be taken in full circulation

Rs 12/6/44

Thro' Secy 13/6/44

SECRETARY TO GOVT. 27 9 12

A4 A3 A2 A1 HE

SPR 13/6/44 Thro' Secy 16 6 44 NP 16 6 44 AH 24/6/44

SECRETARY TO GOVT. 24 JUN 1944 PUBLIC WORKS DEPARTMENT

T.O.U.S.

A draft order is submitted. With reference to C.M.P. plants it is submitted that the Govt of India have been asked to lay down definite principles. This case will therefore be governed by the final orders to be issued on the general q

Thro' Secy 27/6/44

Cert. 13.6.44 R 26.6.44

DEVELOPMENT DEPARTMENT.

Copy of letter from Sri R. Suryanarayana [redacted] Servants of India Society, Royapettah, Madras, dated 1st September 1944, to Mr. Priestley, C.I.E. I.C.S., Adviser to H.E. the Governor of Madras.

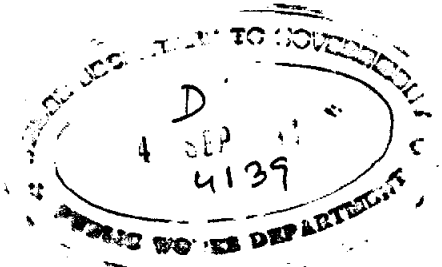
***

Friends from Bellary inform me that Mallanna-garikeri tank work near Kurugode, Bellary district, sanctioned under the 'Grow More Food' Campaign has been stopped owing to the recent decision of Government not to undertake irrigation works even under the 'Grow More Food' Campaign unless a return of a certain percentage is assured. As this involves a change of Government policy and will affect many of the works in the Ceded Districts which have been sanctioned and await sanction I shall be grateful if you will kindly spare a few minutes and allow me to represent our point of view know my anxiety in the matter and so can well appreciat my object in seeking this interview.

xx xx xx

Urgent.
Is this true?

G.W.P.
11-9-1944.



Memo No. 51509 A III/44 dt 9-9-44

Dev

Maybe sent to P.W.D for answering A.G's note

P.W.D

N.S.

Please see A 4's minutes at p 1 ante. 40 No. 1840 O.m. of 28-6-44 in which the scheme for the restoration of the Nellappanaken tank has been sanctioned is put up at flag C The Govt have not issued any orders for stopping the work on the scheme. The statement at A on p 1 ante may perhaps be verified from the T.E (I). A draft T.R. is submitted.

5/9/44 [Issued as T.R of 5-9-44] p 1 cf

[Extract from Dev. file Con. 51509 A III/44]

× × ×

Has there been a general decision as underlined on the previous page?"

G. W. P
5.9.44

Please see A 4's minutes on p 2 above. It may be sent to P.W.D for taking necessary extracts to answer A 4's query and return of the file

N.M.
6.9.44.

TOM.S

Please see A 4's query at p 2 ante. It is submitted that no such decision has been arrived at by the Govt. The C.E (I) [redacted] has been asked to report whether it is a fact that the work in question has been stopped and if so on what authority. His reply is awaited. As soon as the C.E's report is received the file will be resubmitted for circulation to A 4.

TPS 6.9.44.

CM. 4186 D/44. T.M. From the C.E (I) No. 2852/44-II-3 dt 7-9-44.

TOM.S.

A copy of Govt No 1931 P/W dt 7.7.44. is put up at (2). The C.E (I)'s letter referred to at A on p 3 cf. being dealt with separately. In para VI of that letter the C.E (I) has reported that the Rail extension Land and two other schemes are in the initial stages of execution and that they have been sanctioned though the return is less than 3 per cent. and he has requested the orders of the Govt whether he can continue or should stop further execution of the schemes and disband both the establishment and labour. He has not reported however that he is stopping the execution of these schemes.

[redacted]

At the time of sanctioning the Mallapparakeri tank scheme the Govt were aware that the scheme would yield only a return of 1·84 per cent. It is now reported that the scheme will give a return of 1·46 %. As the return anticipated originally was below 3 per cent it does not appear that the orders in para 3 of G O No 1931 Pub. dt 7-7-44 will apply to the above scheme. Even if these orders are interpreted to apply to cases where the Govt sanctioned schemes which were expected to yield less than 3 per cent, the proper course would have been not to stop the work pending the orders of the Govt. In the letter referred to at A a p 3 of the C E (I) has not given any reasons for discontinuing the execution of the three schemes mentioned by him. In the circumstances it seems that the work relating to the Mallapparakeri tank has probably been stopped without any authority. The C. E (I) may be asked to proceed with the work and to take the orders of the Govt separately. If he considers that the work should not be proceeded with, with reasons for such recommendation.

Submitted for orders

8/9/44

S

CE may be asked to proceed with.
estimates in flag (D) - Rs 41,000 have gone up by more than, say, 30-40%.
The orders at Q to which the CE has made a reference

as well as certain other similar orders were passed in cases where revised estimates were found to be four or five times the original estimate.

~~Govt has not stated that there is any such practice & proposes to~~
~~practice but is ignored & the work need not be stopped~~

In this case the CE states that the cost is likely to exceed Rs 41,000. He may be asked to state at once what the revised estimate will be.

Sir. 8.9.44
R. 8.9.44

8/9/44

A4

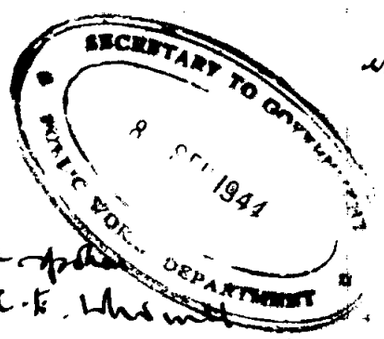
Tell the CE that the intention is that the orders of Govt should be obtained as soon as it is seen that an excess is inevitable in every case in which the estimate is likely to be exceeded largely.

When orders are necessary, they should be applied for urgently.

In this present case the original estimate is Rs 41,000/-
Nothing is stated as to the amount of the revised estimate

Ask for the information by wireless

8/9/44



To have spoken to the C.E. who will get the information by telegram from the local Officers

To Xerox

To Extract of A.4's at A above will be taken and added to the file referred to at X on p 3 ante and the necessary instructions will be issued along with the orders to be passed in that file

This file may be resummoned to A for reference in connection with the interview to be given to Sri R. Suryanarayana Rao at 3 P.M on 12.9.44 - vide D.O. No. 51509-A II/44-3 dtd 8.9.44.

9.9.44

C.E. has sent a telegram stating that revised estimate for the work will be submitted by 15th inst.

To Xerox

11/9/44

Mr. H. is away. Mr. Suryanarayana Rao came & saw me. I explained the position to him & told him that the G.O. at (Q) does not contemplate that works will be invariably stopped unless the return is 3%.

As regards the particular work, I told Mr. Suryanarayana Rao that we were waiting for the revised estimates. Please put up as soon as we hear from C.E. From a telephone conversation with him, I gather that he will be sending a report today or so. Put up tomorrow afternoon if we don't hear from him by then.

12/9/44

From the C.E. (I) No. 2852/wa-II-6 dt. 12.9.44. P7.9.4

O.N.S.

The C.E. (I) has reported that the revised cost of the scheme would be Rs 50,000. The original sanctioned estimate for the scheme is Rs 41,000. As the scheme is expected to yield a return of Rs 755 the return on the revised estimate works out to 1.51 per cent. The revised estimate exceeds the sanctioned estimate by about 21 per cent. Under G.O. No. 1100 P.W. dt. 4.8.38 the C.E. is empowered to sanction excesses over technically sanctioned estimates up to 25 per cent. In the present case it is not known what the amount of the technically sanctioned estimate is. As it may not presumably be more than Rs 41,000 it is likely that the C.E. may sanction the excess over in the revised estimate. It is therefore for orders whether the C.E. (I) may be asked to push through the work expeditiously.

Finance may see before O/n

13/9/44

13/9/44

13/9/44

Yes. The increase is not much.

13/9/44

Finance

No. 41391

Recd at 5 PM 13.9.44

14/9/44

perused ?. (The return anticipated according to the original estimate of Rs 111, 000 was 1.84% against the anticipated return of 1.51% according to the revised estimate

19/9/44

Lucknow. 4.9.44. P.W.

Irwin (Exp R) 4.7.44

Please see A-4's minute at p. 5 ante. The file may now be circulated to A-4 for perusal of the report of the C.E. at p. 7 ante & the notes from p. 6 ante.

14/9/44

CE. may be asked to get on with the work.

14/9/44

14.9.44 / 15

R. 21.9.44

A4 19/9/44

Shall the note at p 3 of GOND 1931 of 7/7/44 should be cancelled. Please examine

19/9/44

To U.S.

A draft memo with reference to Sen's orders above is submitted at p 8 ante.

With reference to A4's minutes above the necessary action is being taken in the linked file (CNO 365TD/44).

After issue of the memo put up the papers may be filed with GO no 844 of 28.6.44.

22/9/44 28/9/44

Report to accompany the estimate for Restoration of Mallappana Keri Kurugodu. Amount of Estimate. Rs41,000-.

This tank called Mallappana Keri of Kurugodu is situated at a distance of 1½ miles to the North East of Kurugode village which is at a distance of 16 miles North West of Bellary. It receives the supply of water from the drainage water of the surrounding catchment. The course of a vanka called Modela vanka or Isaiaballi vanka passes through the tank near its left flank. The tank is an abandoned one and it is proposed to repair its bunds and bring them to standard heights and section s and it is also proposed to repair the existing sluice at L.S. 4050 and also to construct a new sluice at L.S. 2058 from the left flank end of the bund in order to encourage irrigation of the lands under the tank for which two sluices are absolutely necessary as the surplus is to run in the vanka dividing the ayacut into two parts.. It is also proposed to acquire lands in the foreshore which do not belong to the Government and which will become submerged on account of the water being stored up to the proposed F.T.L. At present there being no surplus arrangement from tank it is also proposed to construct a paved byewash 600' long at the left flank of the bund. The tank bund from L.S.0. to L.S. 4750 excluding the length of the byewash and breach site will be made up to 4' above M.W.L. with a top width of 6' and slopes of 1½ to 1 in front and 2 to 1 in rear. The front slope of the bund at present has revetment broken here and there to its entire length up to about 2' below M.W.L. and it is proposed to put in revetment for the tank bund to the entire length of 5600' up to 1' above M.W.L. Irrigation is proposed to be carried on (1) by an existing sluice as L.S. 4050 (2) by a new sluice to be constructed at L.S. 2058. F.T.L. has been fixed at 98.00 to give a capacity of 40.88 M.c.ft.

Standard of Tail.

F.T.L. +98.00
M.W.L. +98.50

Top bund +103.50
Top width 6'-0
Side slopes 1½'to 1 and 2 to 1

P.T.O.

Surplus arrangement:

Paved byewash. Effective length 600' long.
Capacity of Surplussing:- 2448 C.ft. p.s.
or 2450 cusecs.

Bench marks.

(1) B.M. on top of survey stone attractors of Deviation left flank. ... 100.00
Not corrected to Mean sea level and G.T.S.marks.

Coefft. C= 400
Area of free basin ... 13.5 sq. miles.
Number of tanks above ... Nil
Catchment area .. 13.5 sq. miles
Maximum discharge from catchment area to be provided for..... 2268 cusecs.

Details of Storage.

Area of water spread at F.T.L	11.15 mill. sq.ft.
Total Annual storage	40.88 mill. c.ft.
Capacity of tank at F.T.L.	40.88 "

Details of Irrigation.

Ayacut available for irrigation.	...	700 acres
Ayacut of the tank	...	200 acres
Water stored per acre	...	0.2 Mill. c.ft.
Ayacut of Sluice 1	...	100 acres
Sluice 2	...	100 acres

Sluices.

(Existing) sluice 1 at L.S.	4050	...	Sill level + 87.42
(Proposed) Sluice at L.S. 2058	—	..	Sill level + 87.00

(sd) K.Padmanabhapillai,18-1-4
Exe. Engr. Dellary Famine Div

Detailed estimate as revised in Chief Engineer's (Irrign.) office.

		Rs.
I.	Repairs to Vellamankari bund (6318-322) = 5996 ..	5996
II.	Closing the breach in the tank bund ..	2638
III.	Constructing a new tower head sluice..	1401
IV.	Repairs to the existing sluice at the right flank by cutting open bund and effecting necessary repairs etc. ..	400
V.	Constructing a byewash 600' long at the left flank (3105-1550)=4655 ..	4655
VI.	Acquisition of dry land including 15% solatium	13250
	Unforeseen items 7.5.	3000
	Petty, supervision and contingencies say	2610
	Total cost on works	Rs41000

Net revenue = Rs.755/-

Therefore return $\frac{755 \times 100}{41000} = 1.84\%$.

Sd/- Arunachalaram 21.7.42

for CHIEF ENGINEER (IRRIGATION).

SKETCH SHOWING THE POSITION OF MALLAPPANA KERI & ITS AYACUT BELLARY TALUK

SCALE 1"=1 MILE